



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

19006.007

APPLICATION NO.

09/937,519

APPLICANTS

Guido KRUPP

371 (c) FILING DATE

March 5, 2002

GROUP

1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	REFERENCE PROVIDED*
TS	AA1	4,683,195	07/28/1987	Mullis <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AB1	4,683,202	07/28/1987	Mullis	not required, per 69 Fed. Reg. 56481
	AC1	5,130,238	07/14/1992	Malek <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AD1	5,256,555	10/26/1993	Milburn <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AE1	5,262,311	11/16/1993	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AF1	5,407,800	04/18/1995	Gelfand <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AG1	5,459,037	10/17/1995	Sutcliffe <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AH1	5,514,545	05/07/1996	Eberwine	not required, per 69 Fed. Reg. 56481
	AI1	5,545,522	08/13/1996	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AJ1	5,561,058	10/01/1996	Gelfand <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AK1	5,599,672	02/04/1997	Liang	not required, per 69 Fed. Reg. 56481
	AL1	5,665,547	09/09/1997	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
TS	AM1	5,716,785	02/10/1998	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AN1	5,780,273	07/14/1998	Burg <i>duplicate</i>	not required, per 69 Fed. Reg. 56481
TS	AO1	5,837,501	11/17/1998	Beumer <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AP1	5,891,636	04/06/1999	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AQ1	5,932,451	08/03/1999	Wang <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AR1	5,958,688	09/28/1999	Eberwine <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AS1	5,965,409	10/12/1999	Pardee <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AT1	5,972,607	10/26/1999	Kondo <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AU1	6,090,589	07/18/2000	Dimond <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AV1	6,132,997	10/17/2000	Shannon	not required, per 69 Fed. Reg. 56481
	AW1	6,291,170 B1	09/18/2001	Van Gelder <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AX1	US 6,361,949 B1	03/26/2002	Sommer	not required, per 69 Fed. Reg. 56481
	AY1	US 6,379,932 B1	04/30/2002	Arnold <i>et al.</i>	not required, per 69 Fed. Reg. 56481
	AZ1	US 2003/0129624 A1	07/10/2003	Eastman <i>et al.</i>	not required, per 69 Fed. Reg. 56481
TS	BA1	US 2005/0009027 A1	01/13/2005	Krupp <i>et al.</i>	not required, per 69 Fed. Reg. 56481

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TS	✓ AA2	0 201 184 A2	12/17/1986	EPO	submitted herewith	Yes No
	✓ AB2	0 329 822 A2	08/26/1989	EPO	submitted herewith	Yes No
	✓ AC2	0 329 822 A3	08/01/1990	EPO	submitted herewith	Abstract read only Yes No
	✓ AD2	0 329 822 B1	06/08/1994	EPO	submitted herewith	Yes No
	✓ AE2	0 416 572 B1	05/17/1995	EPO	submitted herewith	(claims only) X Yes No
	✓ AF2	0 525 882 A1	02/03/1993	EPO	submitted herewith	Yes No
	✓ AG2	EP 0 525 882 B1	01/14/2004	EPO	submitted herewith	Yes No
	✓ AH2	EP 0 592 626 B1	01/29/2003	EPO	submitted herewith	Yes No
	✓ AI2	EP 0 707 076 A1	04/17/1996	EPO	submitted herewith	Yes No
	✓ AJ2	EP 0 707 076 B1	03/27/2002	EPO	submitted herewith	Yes No
	✓ AK2	EP 1 275 734 A1	01/15/2003	EPO	submitted herewith	Yes No
	✓ AL2	JP 08/205897 A	08/13/1996	Japan	submitted herewith	(abstract only) X Yes No
	✓ AM2	JP 2843675 B2	01/06/1999	Japan; nat'l phase of WO 93/18176 A1, submitted herewith	submitted herewith	X Yes No
	✓ AN2	WO 90/14439 A1	11/29/1990	PCT	submitted herewith	Yes No
	✓ AO2	WO 92/08800 A1	05/29/1992	PCT	submitted herewith	Yes No
	✓ AP2	WO 93/18176 A1	09/16/1993	PCT	submitted herewith	Yes No
	✓ AQ2	WO 94/13833 A1	06/23/1994	PCT	submitted herewith	Yes No
	✓ AR2	WO 99/47704 A1	09/23/1999	PCT	submitted herewith	(abstract only) X Yes No
	✓ AS2	WO 00/18966 A2	04/06/2000	PCT	submitted herewith	Yes No
TS	✓ AT2	WO 00/18966 A3	07/27/2000	PCT	submitted herewith	Yes No

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TS	✓	AA3	WO 00/75356 A1	12/14/2000	submitted herewith	Yes No
	✓	AB3	WO 01/71036 A2	09/27/2001	submitted herewith	Yes No
	✓	AC3	WO 01/071036 A3	10/24/2002	submitted herewith	Yes No
	✓	AD3	WO 03/020873 A2	03/13/2003	submitted herewith	(abstract only) X Yes No
	✓	AE3	WO 03/102232 A2	12/11/2003	submitted herewith	(abstract only) X Yes No
	✓	AF3	WO 2004/022574 A2	03/18/2004	submitted herewith	(abstract only) X Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

REFERENCE PROVIDED*

TS	✓	AG3	Baugh <i>et al.</i> , "Quantitative analysis of mRNA amplification by <i>in vitro</i> transcription", <i>Nucleic Acids Research</i> , 29(5):1-9 (2001)	submitted herewith
	✓	AH3	Berger <i>et al.</i> , "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay of Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid", <i>Biochemistry</i> , 22(10):2365-2372 (1983)	submitted herewith
	✓	AI3	Boom <i>et al.</i> , "Rapid and Simple Method for Purification of Nucleic Acids", <i>J. Clin. Microbiol.</i> , 28(3):495-503 (1990)	submitted herewith
	✓	AJ3	Boularand <i>et al.</i> , "The Human Tryptophan Hydroxylase Gene: an Unusual Splicing Complexity in the 5'-Untranslated Region", <i>J. Biol. Chem.</i> , 270(8):3748-3756 (1995)	submitted herewith
	✓	AK3	Bratty <i>et al.</i> , "The hammerhead RNA domain, a model ribozyme", <i>Biochim. Biophys. Acta</i> , 1216:345-359 (1993)	submitted herewith
	✓	AL3	Burgin <i>et al.</i> , "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates", <i>Biochemistry</i> , 35(45):14090-14097 (1996)	submitted herewith
	✓	AM3	Clouet-d'Orval <i>et al.</i> , "Hammerhead Ribozymes with a Faster Cleavage Rate", <i>Biochemistry</i> , 36(30):9087-9092 (1997)	submitted herewith
TS	✓	AN3	Database WPI, AN 96-419828, Abstract of JP 8-205897, Derwent Publications Ltd. (October 1996)	submitted herewith

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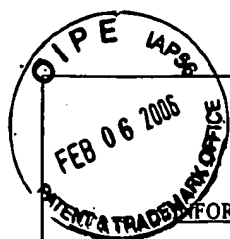
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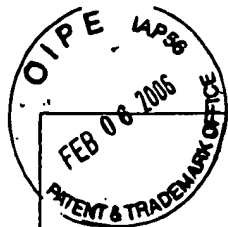
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			REFERENCE PROVIDED*
TS ✓	AA4	Eberwine <i>et al.</i> , "Analysis of gene expression in single live neurons", <i>Proc. Natl. Acad. Sci. USA</i> , 89:3010-3014 (1992)	submitted herewith
	✓ AB4	Fahy <i>et al.</i> , "Self-sustained Sequence Replication (3SR): An Isothermal Transcription-based Amplification System Alternative to PCR", <i>PCR Methods and Applications</i> , 1:25-33 (1991)	submitted herewith
	✓ AC4	Feinberg <i>et al.</i> , "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", <i>Analytical Biochemistry</i> , 132(1):6-13 (1983)	submitted herewith
	✓ AD4	Frohman <i>et al.</i> , "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer", <i>Proc. Natl. Acad. Sci. USA</i> , 85:8998-9002 (1988)	submitted herewith
	✓ AE4	Hames <i>et al.</i> (Eds.), <u>Nucleic acid hybridisation: a practical approach</u> (Practical Approach Series), IRL Press Ltd., pp. 179-202 (1985)	submitted herewith
TS ✓	AF4	Hanne <i>et al.</i> , "Fluorescence resonance energy transfer (FRET) to follow ribozyme reactions in real time", <i>Nucleosides & Nucleotides</i> , 17(9-11):1835-1850 (1998)	submitted herewith
	AG4	International Search Report, Application No. PCT/EP99/07127 (April 7, 2000)	submitted herewith
	AH4	International Search Report, Application No. PCT/EP02/09348 (August 22, 2003)	submitted herewith
	AI4	International Search Report, Application No. PCT/EP03/05579 (December 12, 2003)	submitted herewith
	AJ4	International Search Report, Application No. PCT/EP03/09756 (March 4, 2004)	submitted herewith
TS ✓	AK4	Jenne <i>et al.</i> , "Real-Time Characterization of Ribozymes by Fluorescence Resonance Energy Transfer (FRET)", <i>Angew. Chem. Int. Ed.</i> , 38(9):1300-1303 (1999)	submitted herewith
TS ✓	AL4	Kievits <i>et al.</i> , "NASBA TM isothermal enzymatic in vitro nucleic acid amplification optimized for the diagnosis of HIV-1 infection", <i>J. Virol. Methods</i> , 35(3):273-286 (1991)	submitted herewith
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TS	✓ AA5	Konarska <i>et al.</i> , "Replication of RNA by the DNA-Dependent RNA Polymerase of Phage T7", <i>Cell</i> , 57:423-431 (1989)	submitted herewith
	✓ AB5	Konarska <i>et al.</i> , "Structure of RNAs Replicated by the DNA-Dependent T7 RNA Polymerase", <i>Cell</i> , 63:609-618 (1990)	submitted herewith
	✓ AC5	Krupp, "Stringent RNA quality control using the Agilent 2100 bioanalyzer", Application Note, Agilent Technologies (2005)	submitted herewith
	✓ AD5	Krupp, "Unusual promoter-independent transcription reactions with bacteriophage RNA polymerases", <i>Nucleic Acids Research</i> , 17(8):3023-3036 (1989)	submitted herewith
	✓ AE5	Kuhn <i>et al.</i> , "Specific interaction of the murine transcription termination factor TTF I with class-I RNA polymerases", <i>Nature</i> , 344:559-562 (1990)	submitted herewith
	✓ AF5	Liang <i>et al.</i> , "Differential Display of Eukaryotic Messenger RNA by Means of the Polymerase Chain Reaction", <i>Science</i> , 257:967-971 (1992)	submitted herewith
	✓ AG5	Lockhart <i>et al.</i> , "Expression monitoring by hybridization to high-density oligonucleotide arrays", <i>Nature Biotechnology</i> , 14:1675-1680 (1996)	submitted herewith
	✓ AH5	Löffler <i>et al.</i> , <i>Biochemie und Pathobiochemie</i> , pp. 150-154, Springer-Verlag (1998)	submitted herewith
	✓ AI5	Mahony <i>et al.</i> , "Urine Specimens from Pregnant and Nonpregnant Women Inhibitory to Amplification of <i>Chlamydia trachomatis</i> Nucleic Acid by PCR, Ligase Chain Reaction, and Transcription-Mediated Amplification: Identification of Urinary Substances Associated with Inhibition and Removal of Inhibitory Activity", <i>J. Clin. Microbiol.</i> , 36(11):3122-3126 (1998)	submitted herewith
	✓ AJ5	Mathieu-Daudé <i>et al.</i> , "DNA rehybridization during PCR: the 'C ₀ t effect' and its consequences", <i>Nucleic Acids Research</i> , 24(11):2080-2086 (1996)	submitted herewith
	✓ AK5	Milligan <i>et al.</i> , "Synthesis of Small RNAs Using T7 RNA Polymerase", <i>Methods in Enzymology</i> , Vol. 180, pp. 51-62, Academic Press, Inc. (1989)	submitted herewith
TS	✓ AL5	Mueller <i>et al.</i> , "RNA Integrity Number (RIN) - Standardization of RNA Quality Control", Application Note, Agilent Technologies (2004)	submitted herewith

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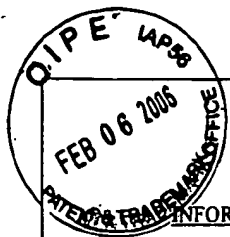
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TS ✓	AA6	Müller <i>et al.</i> , "Amino Acid Requirements of the Nucleocapsid Protein of HIV-1 for Increasing Catalytic Activity of a Ki-ras Ribozyme", <i>J. Mol. Biol.</i> , 242:422-429 (1994)	submitted herewith
✓	AB6	Nedbal <i>et al.</i> , "The Association of Complementary Ribonucleic Acids Can Be Strongly Increased without Lowering Arrhenius Activation Energies or Significantly Altering Structures", <i>Biochemistry</i> , 36:13552-13557 (1997)	submitted herewith
✓	AC6	Pezo <i>et al.</i> , "Hypermutagenic in vitro transcription employing biased NTP pools and manganese cations", <i>Gene</i> , 186:67-72 (1997)	submitted herewith
✓	AD6	Poirier <i>et al.</i> , "Screening differentially expressed cDNA clones obtained by differential display using amplified RNA", <i>Nucleic Acids Research</i> , 25(4):913-914 (1997)	submitted herewith
✓	AE6	Puskás <i>et al.</i> , "RNA Amplification Results in Reproducible Microarray Data with Slight Ratio Bias", <i>BioTechniques</i> , 32(6):1330-1340 (2002)	submitted herewith
✓	AF6	Richmond <i>et al.</i> , "Genome-wide expression profiling in <i>Escherichia coli</i> K-12", <i>Nucleic Acids Research</i> , 27(19):3821-3835 (1999)	submitted herewith
✓	AG6	Saiki <i>et al.</i> , "Enzymatic Amplification of β -Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia", <i>Science</i> , 230:1350-1354 (1985)	submitted herewith
✓	AH6	Sargent, "Isolation of Differentially Expressed Genes", <i>Methods in Enzymology</i> , Vol. 152, pp. 423-432, Academic Press, Inc. (1987)	submitted herewith
✓	AI6	Sarkar <i>et al.</i> , "Access to a Messenger RNA Sequence or its Protein Product is Not Limited by Tissue or Species Specificity", <i>Science</i> , 244:331-334 (1989)	submitted herewith
✓	AJ6	Singh <i>et al.</i> , "Design of Hammerhead Ribozymes to Distinguish Single Base Changes in Substrate RNA", <i>Antisense and Nucleic Acid Drug Development</i> , 6:165-168 (1996)	submitted herewith
✓	AK6	Sioud <i>et al.</i> , "Enhancement of Hammerhead Ribozyme Catalysis by Glyceraldehyde-3-phosphate Dehydrogenase", <i>J. Mol. Biol.</i> , 257:775-789 (1996)	submitted herewith
TS ✓	AL6	Sooknanan <i>et al.</i> , "Nucleic Acid Sequence-Based Amplification", <i>Molecular Methods for Virus Detection</i> , Wiedbrauk and Farkas (eds.), Chapter 12, pp 261-285, Academic Press, Inc. (1995)	submitted herewith

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TS	✓ AA7	Stoflet <i>et al.</i> , "Genomic Amplification with Transcript Sequencing", <i>Science</i> , 239:491-494 (1988)	submitted herewith
	✓ AB7	Taylor <i>et al.</i> , "Chimeric DNA-RNA hammerhead ribozymes have enhanced <i>in vitro</i> catalytic efficiency and increased stability <i>in vivo</i> ", <i>Nucleic Acids Research</i> , 20(17):4559-4565 (1992)	submitted herewith
	✓ AC7	Tyagi <i>et al.</i> , "Multicolor molecular beacons for allele discrimination", <i>Nature Biotechnology</i> , 16:49-53 (1998)	submitted herewith
	✓ AD7	Van Gelder <i>et al.</i> , "Amplified RNA synthesised from limited quantities of heterogeneous cDNA", <i>Proc. Natl. Acad. Sci. USA</i> , 87:1663-1667 (1990)	submitted herewith
TS	✓ AE7	Wyatt <i>et al.</i> , "Synthesis and Purification of Large Amounts of RNA Oligonucleotides", <i>BioTechniques</i> , 11(6):764-769 (1991)	submitted herewith

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